

TX station: 4xBkl8-v-90

Gain solid integration : enabled

Site Name: Labelitaly

General data of Antenna System

TX station	4xBkl8-v-90
Site Name	Labelitaly
System of coordinates	Geographic
Longitude	00°00'00.000"
Latitude	00°00'00.000"
Ground level a.s.l. (m)	100.0
Antenna system height (m)	50.0
Transmitter power(Watt)	1000.000
Carrier wave frequency (MHz)	200.000
Antenna system central frequency (MHz)	200.000
Antenna base diagrams type 1	LABEL ITALY-BKL_8 LOG 8 ELEM. VHF WB
Antenna base diagrams type 2	-
Polarization (H/V/C/X)	V
Transmitting cable attenuation (dB)	0.0
Additional attenuations(dB)	0.0
Base diagrams sectors (T = All, F = Front)	T
Velocity factor of cables to Antennas (0÷1)	0.88
Coordinate System(C = cartesian, P = polar)	P
Mast side / diameter(cm):	10.0
Mast cross section (T/Q/C)	C
Structure rotation w.r.t. North (°)	0.0
Mast rotation w.r.t. North (°)	0.0

Information about antennas used in the System

	<i>Antenna type 1</i>
Manufacturer	LABEL ITALY
Antenna model	BKL_8 LOG 8 ELEM.
Band start(MHz)	170
Band stop(MHz)	240
diagrams Frequency(MHz)	200
Polariz (H,V,C,X)	V
Vertical dist (cm)	150
Height (cm)	92
Width (cm)	6
Thickness (cm)	142
Weight (Kg)	4.5
Maximum power (KW)	2
Gain (dBd)	6.4
North E.C. (cm)	0
East E.C. (cm)	0
Return loss (dB)	20
R.C.Phase (°)	0

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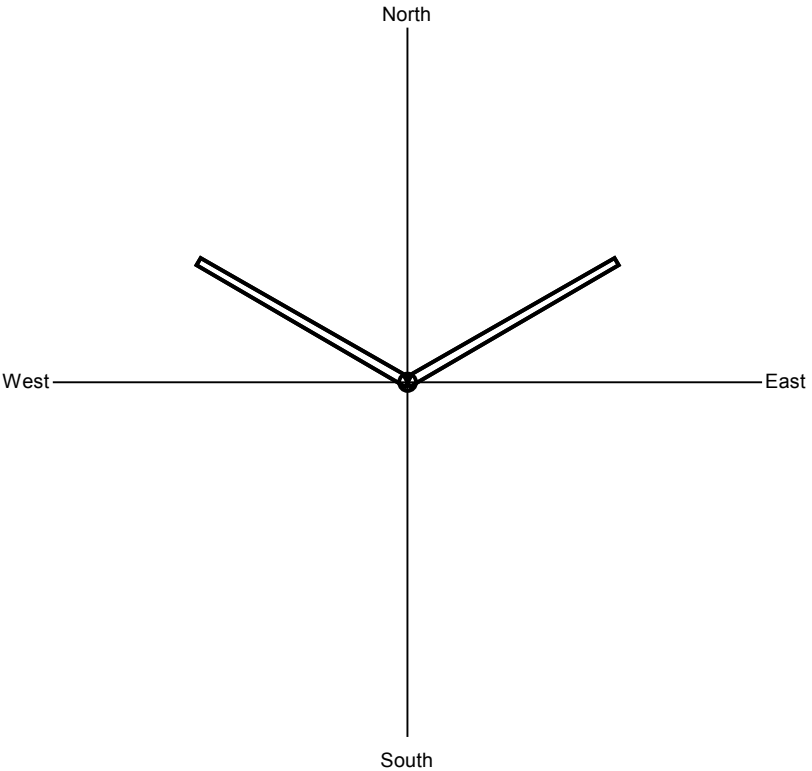
Geometr. and electrical data of Antenna System

	<i>Power</i> (%)	<i>Tilt</i> (°)	<i>Az.</i> (°/N)	<i>Phase</i> (°)	<i>V dist.</i> (m)	<i>Scr-d</i> (cm)	<i>Scr-Az</i> (°/N)	<i>Rot.</i> (1÷4)	<i>Type</i> (1÷2)	<i>L cables</i> (cm)	<i>Car. phase</i> (°)
1	25.000	0	300	0 +0.0	0.70	0.0	300.0	1	1	0.0	0.0
2	25.000	0	300	0 +0.0	-0.60	0.0	300.0	1	1	0.0	0.0
3	25.000	0	60	0 +0.0	0.60	0.0	60.0	1	1	0.0	0.0
4	25.000	0	60	0 +0.0	-0.70	0.0	60.0	1	1	0.0	0.0

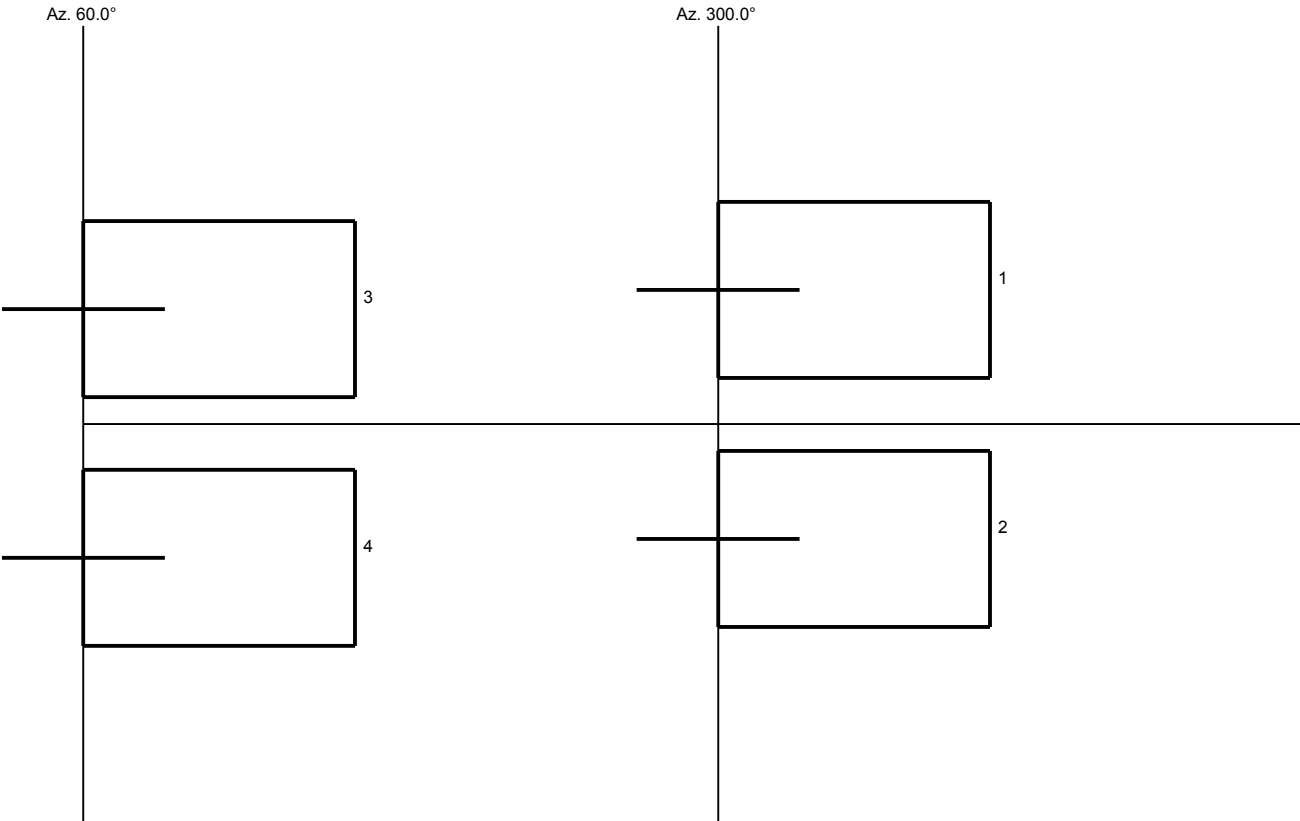
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Plan of antenna system



Side of antenna system



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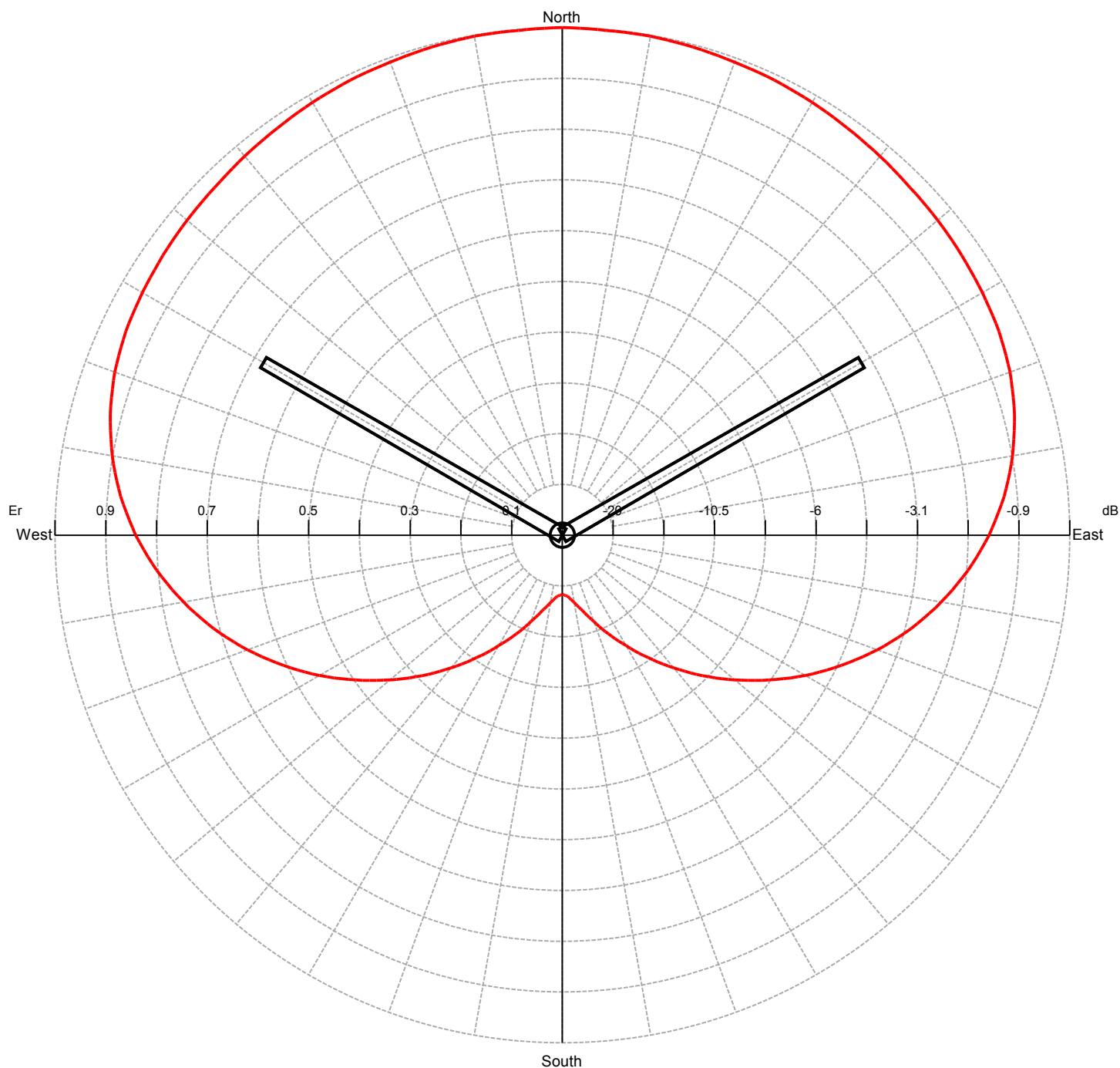
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Antennas arrays data

A. Antennas array azimuth (°/N)	60	300
B. Number of antennas	2	2
C. Nominal power supply (W)	500.00	500.00
D. Losses (addit. + cables) (dB)	0.0	0.0
E. Effective power supply (W)	500.00	500.00
F. Theor. maximum gain (dBd)	7.97	7.97
G. Distribution losses (dB)	0.00	0.00
H. Nominal max gain [F - G] (dBd)	7.97	7.97
I. Compensation losses (dB)	0.00	0.00
J. Effec. max gain [H - I] (dBd)	7.97	7.97
K. Effec. max gain (times)	6.26	6.26
L. Effec. max power [E * K] (KW)	3.1295	3.1295
M. Max power depr. angle (°)	0.0	0.0
N. Max power az. angle (°)	60	300

Diagram in dBK calculated at horizon

Az. (°/N)	dBK	Az. (°/N)	dBK	Az. (°/N)	dBK	Az. (°/N)	dBK
0	5.9	90	4.4	180	-12.8	270	4.4
10	5.9	100	3.5	190	-11.5	280	5.0
20	5.8	110	2.3	200	-9.0	290	5.3
30	5.8	120	0.7	210	-6.1	300	5.5
40	5.7	130	-1.2	220	-3.5	310	5.6
50	5.6	140	-3.5	230	-1.2	320	5.7
60	5.5	150	-6.1	240	0.7	330	5.8
70	5.3	160	-9.0	250	2.3	340	5.8
80	5.0	170	-11.5	260	3.5	350	5.9



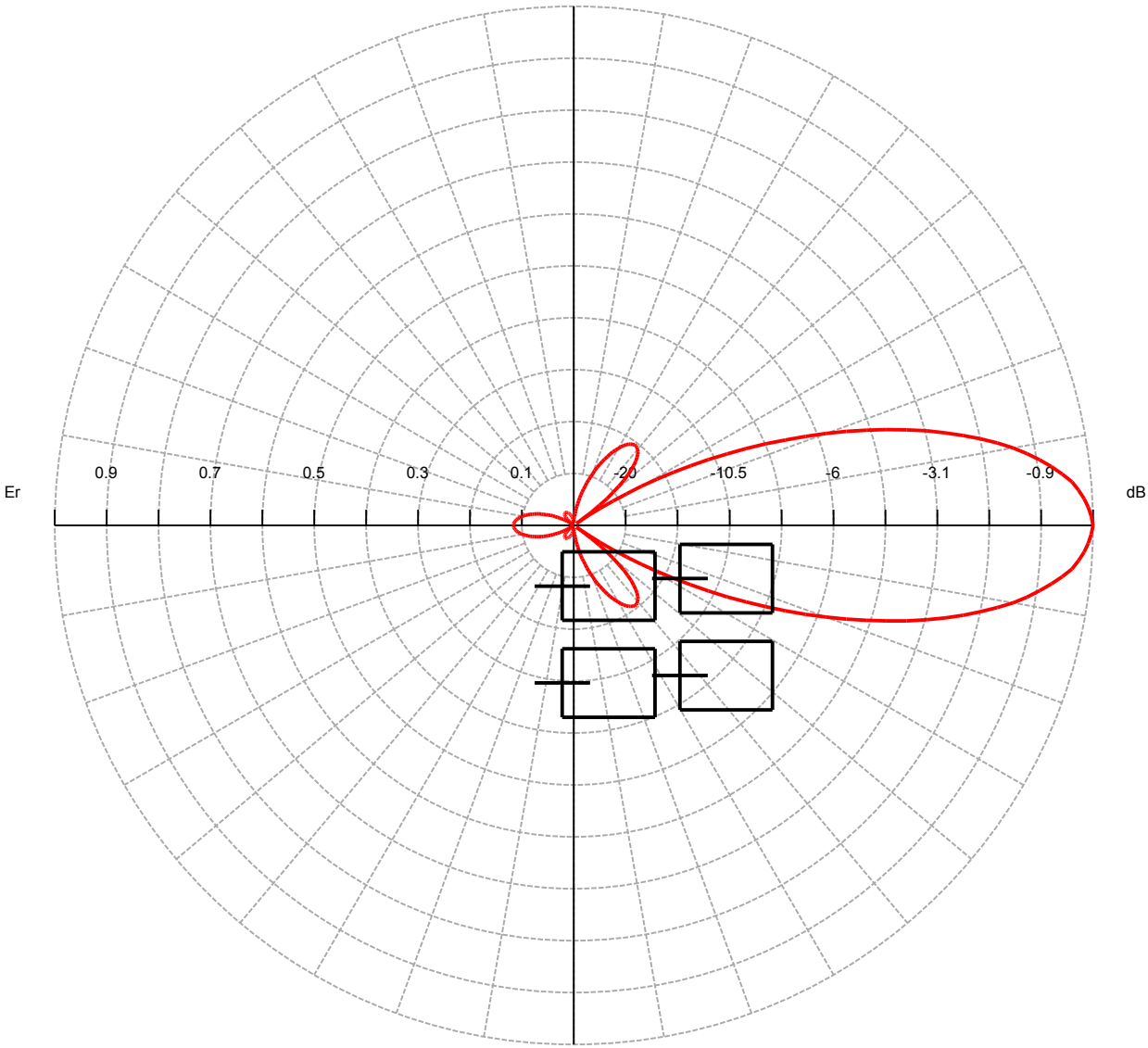
-0.0° depres. (Total Antenna), Gain (dBd): 5.89

ERP T.Max(KW): 3.8837 ERP E.Max(KW): 3.8837

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Vertical diagram at an azimuth of 0.0° degrees



0.0° Az. (Total Antenna), Gain (dBd): 5.89

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